

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC 7 C12N15/63 C12N15/02 C12Q1/68		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
IPC 7 C12N C12Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used)		
EPO-Internal, WPI Data, PAJ, BIOSIS		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 31837 A (DELCARDAYRE STEPHEN B ;MAXYGEN INC (US); MINSHULL JEREMY (US); NES) 23 July 1998 (1998-07-23) cited in the application  page 7, line 2 - line 16 page 8, line 24 - line 38 page 62, line 38 - page 63, line 8 page 65, line 13 - line 16 page 66, line 23 - line 24 page 82, line 1 - line 3	1-51, 53, 54, 57, 59, 61-86, 93-95, 99, 101
Y		52, 55, 56, 58, 60, 87-92, 96-98, 100
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
21 November 2003		05 DEC 2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  SARA NILSSON /EÖ

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 52180 A (TERRAGEN DISCOVERY INC) 8 September 2000 (2000-09-08)  page 1, line 11 - line 18 page 41, line 28 - line 31 page 63, line 30 -page 64, line 7 page 65, line 11 -page 66, line 21	87-92, 96-98, 101
Y		52,55, 56,58, 60, 87-92, 96-98, 100
X	--- WO 98 17811 A (CHROMAXOME CORP) 30 April 1998 (1998-04-30)  page 1, line 10 - line 18 page 38, line 28 - line 31 page 59, line 1 - line 7 page 60, line 30 -page 61, line 2 page 62, line 6 -page 63, line 2	87-92, 96-98, 101
Y		52,55, 56,58, 60, 87-92, 96-98, 100
X	--- WO 01 73000 A (MAXYGEN INC ;KEENAN ROBERT J (US); MINSHULL JEREMY (US); STEMMER W) 4 October 2001 (2001-10-04) page 4, line 7 - line 18 page 5, line 4 - line 16 page 10, line 22 - line 25 page 12, line 16 - line 29 page 13, line 19 - line 27 page 34, line 28 - line 29 page 62, line 29 -page 64, line 2	87-92, 96-98, 101
Y		52,55, 56,58, 60, 87-92, 96-98, 100
P,X	--- WO 02 059296 A (EVOLVA BIOTECH AS ;NAESBY MICHAEL (DK); NIELSEN SOEREN V S (DK); S) 1 August 2002 (2002-08-01) see especially page 4, line 4 - line 16, page 8, line 19 - line 25  ---	1-101

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 02 059290 A (EVOLVA BIOTECH AS ;NIELSEN SOEREN V S (DK); SOERENSEN ALEXANDRA M) 1 August 2002 (2002-08-01) claims ---	1-101
A	WO 00 04190 A (SUBRAMANIAN VENKITESWATAN ;HUISMAN GJALT (US); MAXYGEN INC (US); T) 27 January 2000 (2000-01-27) cited in the application page 5, line 29 -page 6, line 10 page 9, line 4 - line 13 page 11, line 29 - line 30 page 12, line 27 -page 13, line 28 page 79, line 1 - line 13 ---	1-101
A	WO 97 35966 A (MAXYGEN INC ;MINSHULL JEREMY (US); STEMMER WILLEM P C (US)) 2 October 1997 (1997-10-02) page 13, line 13 -page 14, line 37 page 20, line 21 - line 36 page 31, line 34 -page 32, line 1 -----	1-101

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9831837	A	23-07-1998	
		AU 743305 B2	24-01-2002
		AU 5920998 A	07-08-1998
		EP 1007732 A1	14-06-2000
		JP 2001508662 T	03-07-2001
		WO 9831837 A1	23-07-1998
		US 6326204 B1	04-12-2001
		US 2003148309 A1	07-08-2003
		US 6379964 B1	30-04-2002
		US 6251674 B1	26-06-2001
		US 6528311 B1	04-03-2003
		US 6335198 B1	01-01-2002
		US 6352859 B1	05-03-2002
		US 6287862 B1	11-09-2001
WO 0052180	A	08-09-2000	
		US 6242211 B1	05-06-2001
		AU 762810 B2	03-07-2003
		AU 4170000 A	21-09-2000
		CA 2362989 A1	08-09-2000
		EP 1159432 A1	05-12-2001
		JP 2003506009 T	18-02-2003
		WO 0052180 A1	08-09-2000
WO 9817811	A	30-04-1998	
		US 5783431 A	21-07-1998
		AU 744960 B2	07-03-2002
		AU 5163298 A	15-05-1998
		EP 0951557 A1	27-10-1999
		JP 2001502547 T	27-02-2001
		KR 20000052795 A	25-08-2000
		WO 9817811 A1	30-04-1998
		US 6242211 B1	05-06-2001
		ZA 9709557 A	12-05-1998
WO 0173000	A	04-10-2001	
		AU 8727301 A	08-10-2001
		EP 1276861 A2	22-01-2003
		WO 0173000 A2	04-10-2001
		US 2001049104 A1	06-12-2001
WO 02059296	A	01-08-2002	
		WO 02059296 A2	01-08-2002
		EP 1360308 A2	12-11-2003
WO 02059290	A	01-08-2002	
		WO 02059290 A2	01-08-2002
WO 0004190	A	27-01-2000	
		US 6326204 B1	04-12-2001
		AU 5102699 A	07-02-2000
		CA 2331263 A1	27-01-2000
		EP 1108058 A1	20-06-2001
		JP 2002520071 T	09-07-2002
		WO 0004190 A1	27-01-2000
		US 2003148309 A1	07-08-2003
		US 6528311 B1	04-03-2003
		US 6335198 B1	01-01-2002
		US 6287862 B1	11-09-2001
WO 9735966	A	02-10-1997	
		US 6117679 A	12-09-2000
		US 5837458 A	17-11-1998
		AU 729505 B2	01-02-2001
		AU 2337797 A	17-10-1997
		AU 2542697 A	17-10-1997

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9735966	A	CA 2247930 A1	02-10-1997
		EP 0932670 A1	04-08-1999
		EP 0906418 A1	07-04-1999
		JP 2002514901 T	21-05-2002
		JP 2000507444 T	20-06-2000
		JP 2001197895 A	24-07-2001
		WO 9735957 A1	02-10-1997
		WO 9735966 A1	02-10-1997
		US 2002025517 A1	28-02-2002
		US 2003082611 A1	01-05-2003
		US 6319713 B1	20-11-2001
		US 6355484 B1	12-03-2002
		US 6358742 B1	19-03-2002
		US 2001046707 A1	29-11-2001
		US 6387702 B1	14-05-2002
		US 2002068363 A1	06-06-2002
		US 6309883 B1	30-10-2001
		US 2002051976 A1	02-05-2002
		US 6482647 B1	19-11-2002
		US 6096548 A	01-08-2000
		AT 205877 T	15-10-2001
		AT 205878 T	15-10-2001
		AU 713952 B2	16-12-1999
		AU 1087397 A	19-06-1997
		CA 2239099 A1	05-06-1997
		DE 69615406 D1	25-10-2001
		DE 69615406 T2	20-06-2002
		DE 69615411 D1	25-10-2001
		DE 69615411 T2	20-06-2002
		DE 876509 T1	05-04-2001
		DE 911396 T1	05-04-2001
		DK 876509 T3	18-02-2002
		DK 911396 T3	18-02-2002
		EP 1103606 A2	30-05-2001
		EP 1138763 A2	04-10-2001
		EP 0876509 A1	11-11-1998
		EP 0911396 A2	28-04-1999
		ES 2164929 T3	01-03-2002
		ES 2165124 T3	01-03-2002
		JP 2000308490 A	07-11-2000
		JP 2000500981 T	02-02-2000
		US 6165793 A	26-12-2000
		WO 9720078 A1	05-06-1997
		US 6180406 B1	30-01-2001